HERV-K_7p22.1 Provirus Ancestral Gag Polyprotein (ERVK6) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HERV-K_7p22.1 provirus ancestral Gag polyprotein (ERVK6), Recombinant Protein
Full Product Name	Recombinant Human HERV-K_7p22.1 provirus ancestral Gag polyprotein (ERVK6)
Product Gene Name	ERVK6 recombinant protein
Product Synonym Gene Name	ERVK6
Sequence	GQTKSKIKSK YASYLSFIKI LLKRGGVKVS TKNLIKLFQI IEQFCPWFPE QGTLDLKDWK RIGKELKQAG RKGNIIPLTV WNDWAIIKAA LEPFQTEEDS VSVSDAPGSC IIDCNENTRK KSQKETEGLH CEYVAEPVMA QSTQNVDYNQ LQEVIYPETL KLEGKGPELV GPSESKPRGT SPLPAGQVPV TLQPQKQVKE NKTQPPVAYQ YWPPAELQYR PPPESQYGYP GMPPAPQGRA PYPQPPTRRL NPTAPPSRQG SKLHEIIDKS RKEGDTEAWQ FPVTLEPMPP GEGAQEGEPP TVEARYKSFS IKKLKDMKEG VKQYGPNSPY MRTLLDSIAH GHRLIPYDWE ILAKSSLSPS QFLQFKTWWI DGVQEQVRRN RAANPPVNID ADQLLGIGQN WSTISQQALM QNEAIEQVRA ICLRAWEKIQ DPGSTCPSFN TVRQGSKEPY PDFVARLQDV AQKSIADEKA RKVIVELMAY ENANPECQSA IKPLKGKVPA GSDVISEYVK ACDGIGGAMH KAMLMAQAIT GVVLGGQVRT FGRKCYNCGQ IGHLKKNCPV LNKQNITIQA TTTGREPPDL CPRCKKGKHW ASQCRSKFDK NGQPLSGNEQ RGQPQAPQQT GAFPIQPFVP QGFQGQQPPL SQVFQGISQL PQYNNCPPPQ AAVQQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	74,079 Da
Sequence Positions	2-666. Full Length of Mature Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	605626
3D Structure	ModBase 3D Structure for Q7LDI9
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ERVK6 recombinant protein	MBS1421946 is a recombinant protein targeting ERVK6. Also known as Recombinant Human HERV-K_7p22.1 provirus ancestral Gag polyprotein (ERVK6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ERVK6 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERVK6. It may not necessarily be applicable to this product.

NCBI GI #	50400385

NCBI GeneID	64006
NCBI Accession #	Q7LDI9.3
UniProt Primary Accession #	Q7LDI9
UniProt Secondary Accession #	Q9UKH5; Q9Y6I1; Q9YNA6; Q9YNB0
UniProt Related Accession #	P61566; P61572; P61573; P61579; P63128; Q69383; Q69384; Q7LDI9; Q9BXR3; Q9QC07
NCBI Official Full Name	Endogenous retrovirus group K member 6 Gag polyprotein
NCBI Official Synonym Full Names	endogenous retrovirus group K member 6, envelope
NCBI Official Symbol	ERVK-6
NCBI Official Synonym Symbols	cORF; ERVK6; K-Rev; c-orf; envK2; HERV-K108; HERV-K(C7)
UniProt Protein Name	Endogenous retrovirus group K member 6 Gag polyprotein
UniProt Synonym Protein Names	HERV-K(C7) Gag protein; HERV-K(HML-2.HOM) Gag protein; HERV-K108 Gag protein; HERV-K_7p22.1 provirus ancestral Gag polyprotein; Gag polyprotein
UniProt Gene Name	ERVK-6
UniProt Synonym Gene Names	ERVK6; Gag polyprotein
UniProt Comments for ERVK6	The products of the Gag polyproteins of infectious retroviruses perform highly complex orchestrated tasks during the assembly, budding, maturation, and infection stages of the viral replication cycle. During viral assembly, the proteins form membrane associations and self-associations that ultimately result in budding of an immature virion from the infected cell. Gag precursors also function during viral assembly to selectively bind and package two plus strands of genomic RNA. Endogenous Gag proteins may have kept, lost or modified their original function during evolution.
Research Articles on ERVK6	**1.** Up-regulation of the endogenous retrovirus HERV-K initiates and sustains activation of the immune system and causes vascular changes associated with pulmonary arterial hypertension.
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